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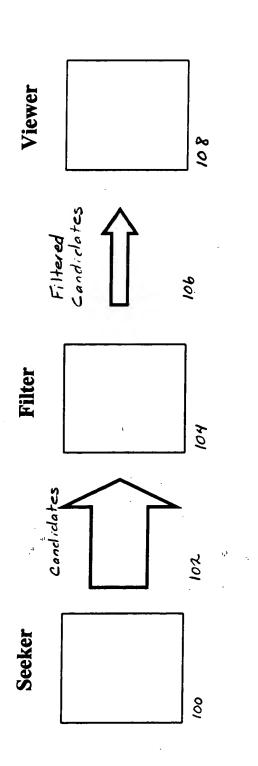
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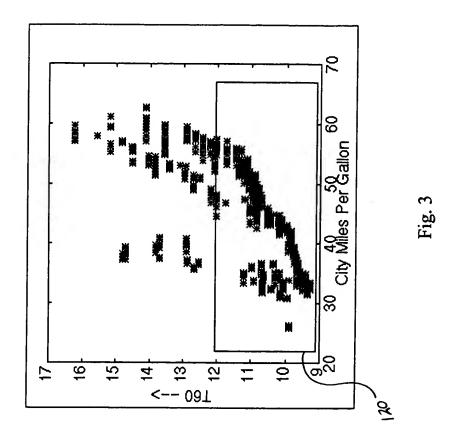
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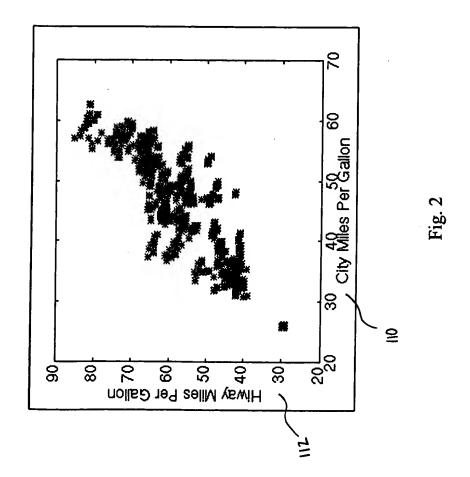




1g. 1









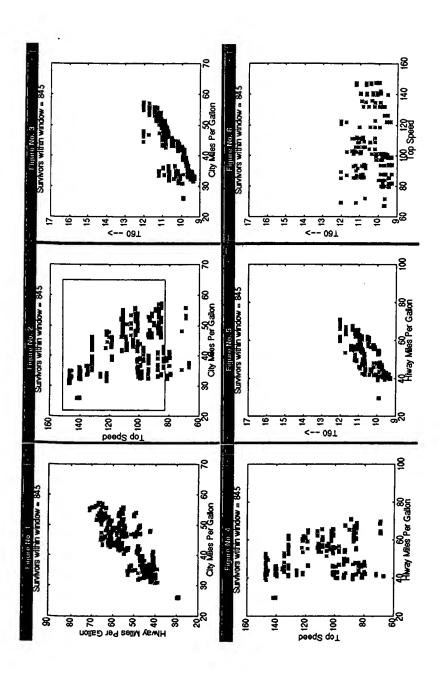
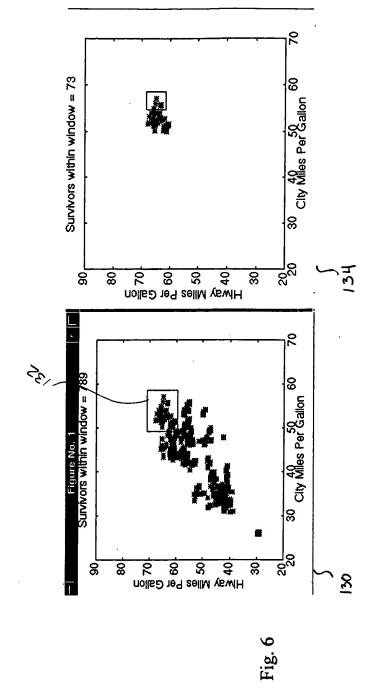
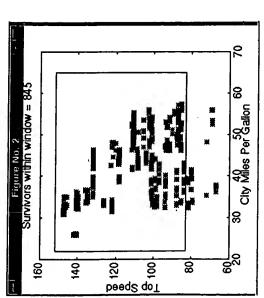


Fig. 4









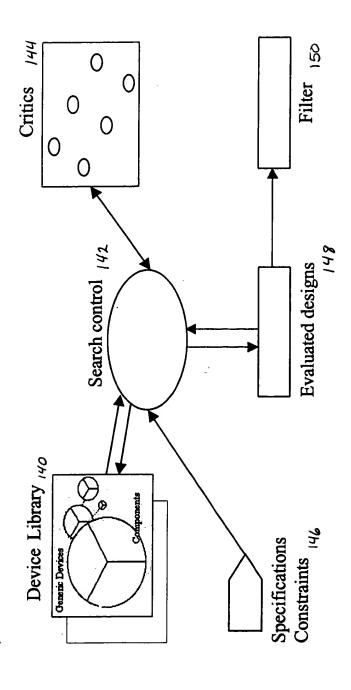


Fig. 7



Fig. 8

 $(time = 0) => volume = 15/264 \text{ m}^3$ diff(volume) = - flow_rate density = $0.00078 \text{ kg/m}^{-3}$ % 15-gallon tank flow_rate: float volume: float density: float Entity: 15gal_tank % Diesel Fuel behaviors: quantities: <u>8</u>

accounted for in the transmission participants: % efficiency behavior: Tw_vw19[speed] * driver.throttle_angle efficiency_vw19[torque,speed] % in gram/kW-hr BSFC_map[torque,speed*30/pi] efficiency: float torque: float BSFC: float speed: float = efficiency = torque behaviors:

= BSFC

Entity vw19

quantities:

transmission.torque_out = diffgear.torque_in transmission.speed_out = diffgear.speed_in % All losses from output shaft of ICE to wheel %are transmission: 5_speed_manual Relation transmission_diffgear diffgear: diffgear4_6



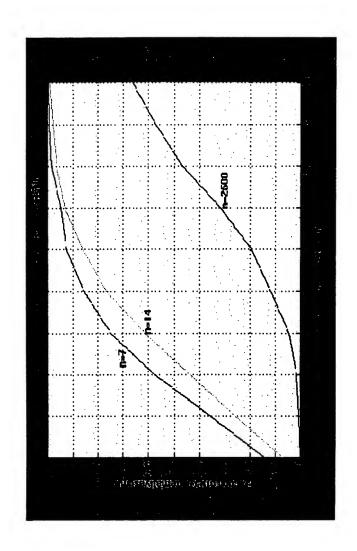


Fig. 9



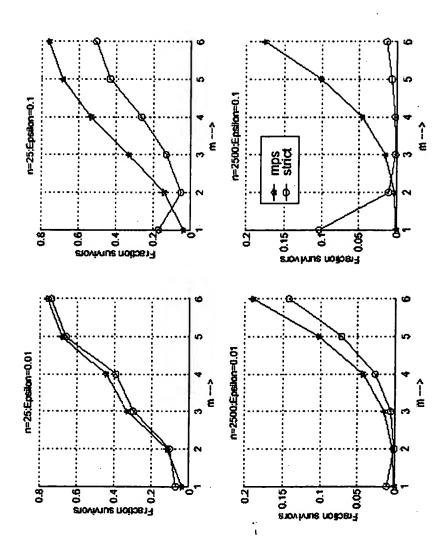
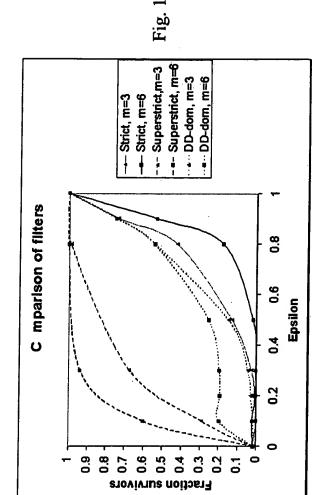


Fig. 10





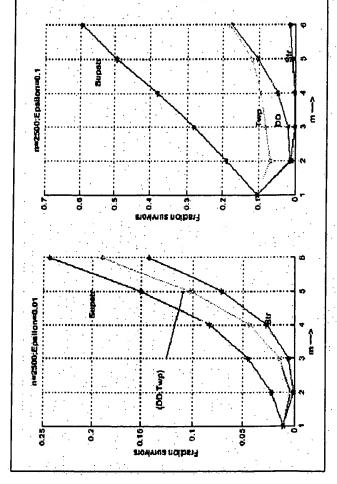
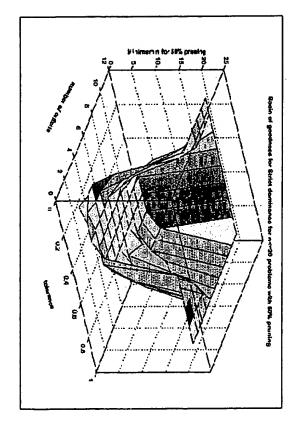
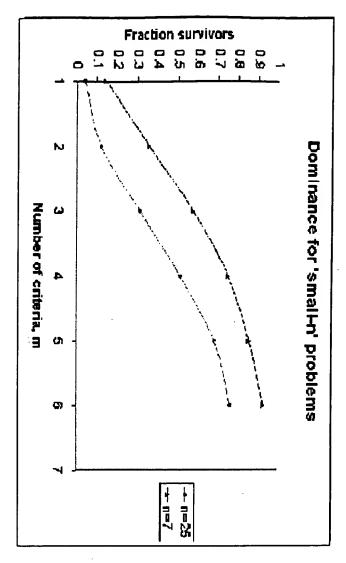


Fig. 1











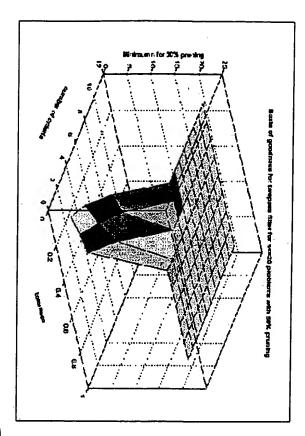
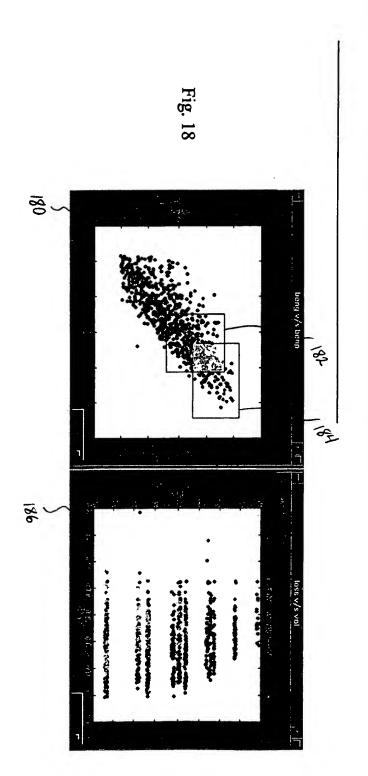


Fig. 16

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Fig. 15





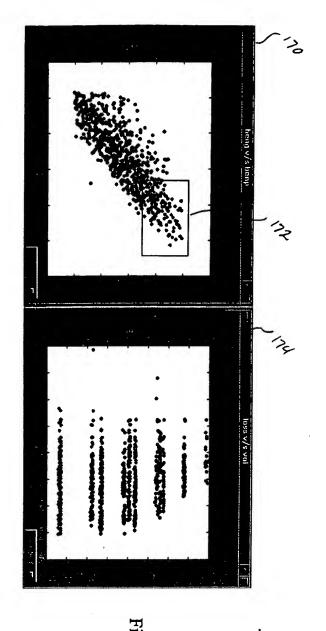


Fig. 17



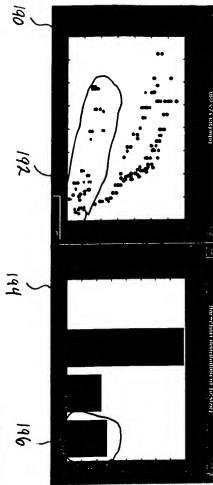


Fig. 20

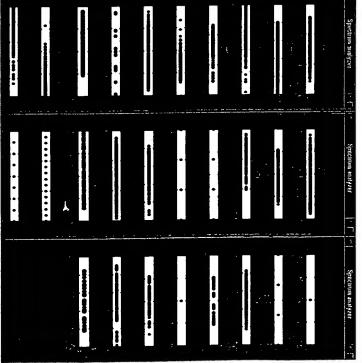


Fig. 19

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